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PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1		Web Page for STN Seminar Schedule - N. America
NEWS 2	APR 04	STN AnaVist, Version 1, to be discontinued
NEWS 3	APR 15	WPIDS, WPINDEX, and WPIX enhanced with new predefined hit display formats
NEWS 4	APR 28	EMBASE Controlled Term thesaurus enhanced
NEWS 5	APR 28	IMSRESEARCH reloaded with enhancements
NEWS 6	MAY 30	INPAFAMDB now available on STN for patent family searching
NEWS 7	MAY 30	DGENE, PCTGEN, and USGENE enhanced with new homology sequence search option
NEWS 8	JUN 06	EPFULL enhanced with 260,000 English abstracts
NEWS 9	JUN 06	KOREAPAT updated with 41,000 documents
NEWS 10	JUN 13	USPATFULL and USPAT2 updated with 11-character patent numbers for U.S. applications
NEWS 11	JUN 19	CAS REGISTRY includes selected substances from web-based collections
NEWS 12	JUN 25	CA/CAplus and USPAT databases updated with IPC reclassification data
NEWS 13	JUN 30	AEROSPACE enhanced with more than 1 million U.S. patent records
NEWS 14	JUN 30	EMBASE, EMBAL, and LEMBASE updated with additional options to display authors and affiliated organizations
NEWS 15	JUN 30	STN on the Web enhanced with new STN AnaVist Assistant and BLAST plug-in
NEWS 16	JUN 30	STN AnaVist enhanced with database content from EPFULL
NEWS 17	JUL 28	CA/CAplus patent coverage enhanced
NEWS 18	JUL 28	EPFULL enhanced with additional legal status information from the epoline Register
NEWS 19	JUL 28	IFICDB, IFIPAT, and IFIUDB reloaded with enhancements
NEWS 20	JUL 28	STN Viewer performance improved
NEWS 21	AUG 01	INPADOCDB and INPAFAMDB coverage enhanced
NEWS 22	AUG 13	CA/CAplus enhanced with printed Chemical Abstracts page images from 1967-1998
NEWS 23	AUG 15	CAOLD to be discontinued on December 31, 2008
NEWS 24	AUG 15	CAplus currency for Korean patents enhanced
NEWS 25	AUG 25	CA/CAplus, CASREACT, and IFI and USPAT databases enhanced for more flexible patent number searching
NEWS 26	AUG 27	CAS definition of basic patents expanded to ensure comprehensive access to substance and sequence

Updated Search

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information

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS LOGIN Welcome Banner and News Items
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* * * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 14:13:23 ON 29 AUG 2008

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 14:13:28 ON 29 AUG 2008
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STRUCTURE FILE UPDATES: 28 AUG 2008 HIGHEST RN 1044598-04-0
DICTIONARY FILE UPDATES: 28 AUG 2008 HIGHEST RN 1044598-04-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

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http://www.cas.org/support/stngen/stndoc/properties.html

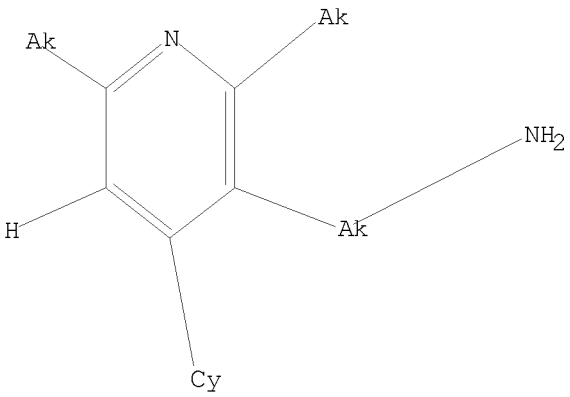
=>
Uploading C:\Documents and Settings\brobinson1\My Documents\561.str

L1 STRUCTURE UPLOADED

Updated Search

10577561

=> d l1
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1
SAMPLE SEARCH INITIATED 14:16:01 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 178600 TO ITERATE

1.1% PROCESSED 2000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**
PROJECTED ITERATIONS: 3547109 TO 3596891
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=>
Uploading C:\Documents and Settings\brobinson1\My Documents\561a.str

L3 STRUCTURE UPLOADED

=> d l3
L3 HAS NO ANSWERS
L3 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> s l3
SAMPLE SEARCH INITIATED 14:18:26 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 13877 TO ITERATE

Updated Search

10577561

14.4% PROCESSED 2000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 270482 TO 284598
PROJECTED ANSWERS: 0 TO 0

L4 0 SEA SSS SAM L3

=> s l3 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 177.90 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 14:18:30 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 280424 TO ITERATE

100.0% PROCESSED 280424 ITERATIONS 2 ANSWERS
SEARCH TIME: 00.00.03

L5 2 SEA SSS FUL L3

=> file hcaplus
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 182.04 182.25

FILE 'HCAPLUS' ENTERED AT 14:18:36 ON 29 AUG 2008
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FILE COVERS 1907 - 29 Aug 2008 VOL 149 ISS 10
FILE LAST UPDATED: 28 Aug 2008 (20080828/ED)

HCAplus now includes complete International Patent Classification (IPC)
reclassification data for the second quarter of 2008.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> s l5

Updated Search

10577561

L6 1 L5

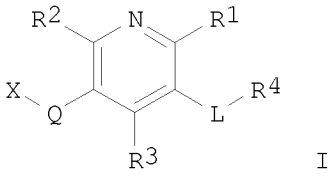
=> d l6, ibib abs hitstr, 1

L6 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2005:409480 HCAPLUS
DOCUMENT NUMBER: 142:463610
TITLE: Preparation of pyridines as inhibitors of dipeptidyl peptidase IV useful for the prophylaxis or treatment of diabetes
INVENTOR(S): Oi, Satoru; Maezaki, Hironobu; Suzuki, Nobuhiro
PATENT ASSIGNEE(S): Takeda Pharmaceutical Company Limited, Japan
SOURCE: PCT Int. Appl., 431 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

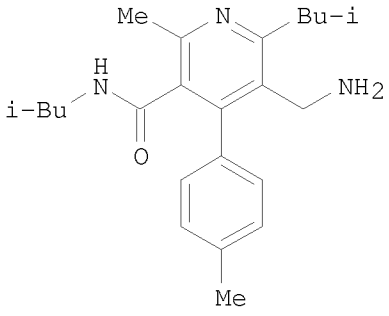
PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
WO 2005042488	A1	20050512	WO 2004-JP16457		20041029
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW					
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG					
AU 2004285807	A1	20050512	AU 2004-285807		20041029
CA 2543529	A1	20050512	CA 2004-2543529		20041029
JP 2006016377	A	20060119	JP 2004-315517		20041029
EP 1678138	A1	20060712	EP 2004-793377		20041029
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR					
CN 1886376	A	20061227	CN 2004-80034965		20041029
BR 2004015960	A	20070116	BR 2004-15960		20041029
MX 2006PA03979	A	20060705	MX 2006-PA3979		20060407
US 20070037807	A1	20070215	US 2006-577561		20060428
IN 2006KN01220	A	20070427	IN 2006-KN1220		20060510
NO 2006002516	A	20060725	NO 2006-2516		20060531
KR 2008067013	A	20080717	KR 2008-715446		20080625
PRIORITY APPLN. INFO.:			JP 2003-373776	A	20031031
			JP 2004-30491	A	20040206
			JP 2004-165977	A	20040603
			WO 2004-JP16457	W	20041029
			KR 2006-708423	A3	20060429

OTHER SOURCE(S): CASREACT 142:463610; MARPAT 142:463610
GI

Updated Search



I



II

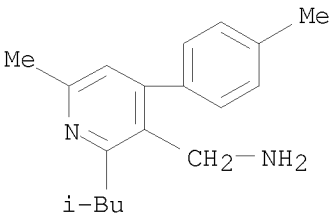
AB Title compds. I [wherein R1, R2 = independently (un)substituted hydrocarbyl, hydroxy; R3 = (un)substituted aryl; R4 = NH2 and derivs.; L = divalent hydrocarbon chain; Q = a bond or a divalent hydrocarbon chain; X = H, CN, NO2, acyl, OH and derivs., SH and derivs., NH2 and derivs., (un)substituted cyclyl; provided that when X = -C(:O)OEt, then Q = divalent hydrocarbon chain and that certain compds. are absent; and their salts, prodrugs] were prepared as dipeptidyl peptidase IV inhibitors. For example, Boc-protection of Me 5-(aminomethyl)-6-isobutyl-2-methyl-4-(4-methylphenyl)nicotinate (preparation given), saponification, coupling of the acid with isobutylamine/deprotection gave II•2TFA. I show a superior dipeptidyl peptidase IV inhibitory activity, and are useful as agents for the prophylaxis or treatment of diabetes and related diseases.

IT 851582-22-4P, [[2-Isobutyl-6-methyl-4-(4-methylphenyl)pyridin-3-yl]methyl]amine dihydrochloride
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(drug candidate; preparation of pyridines as inhibitors of dipeptidyl peptidase IV useful for prophylaxis or treatment of diabetes)

RN 851582-22-4 HCAPLUS

CN 3-Pyridinemethanamine, 6-methyl-4-(4-methylphenyl)-2-(2-methylpropyl)-, hydrochloride (1:2) (CA INDEX NAME)

10577561



●2 HCl

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	8.14	190.39

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.80	-0.80

FILE 'REGISTRY' ENTERED AT 14:18:51 ON 29 AUG 2008

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 28 AUG 2008 HIGHEST RN 1044598-04-0
DICTIONARY FILE UPDATES: 28 AUG 2008 HIGHEST RN 1044598-04-0

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TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
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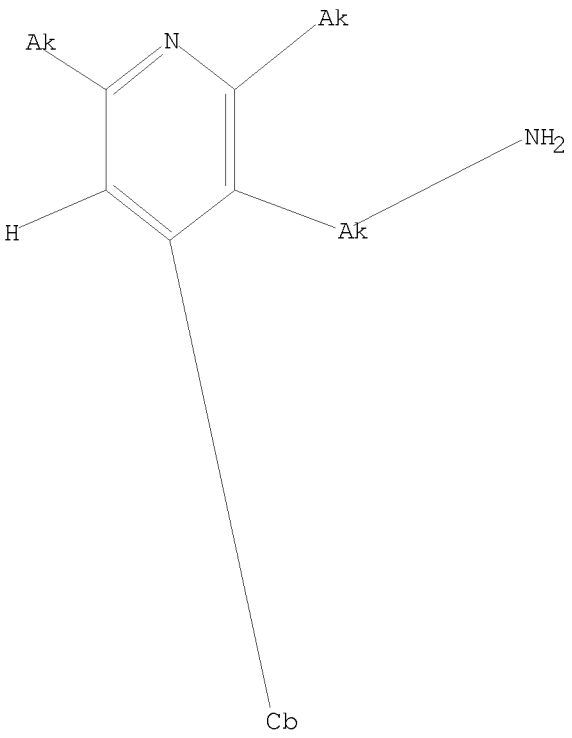
L7 STRUCTURE UPLOADED

Updated Search

10577561

=> d l7
L7 HAS NO ANSWERS
L7 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l7
SAMPLE SEARCH INITIATED 14:20:58 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 178600 TO ITERATE

1.1% PROCESSED 2000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**
PROJECTED ITERATIONS: 3547109 TO 3596891
PROJECTED ANSWERS: 0 TO 0

L8 0 SEA SSS SAM L7

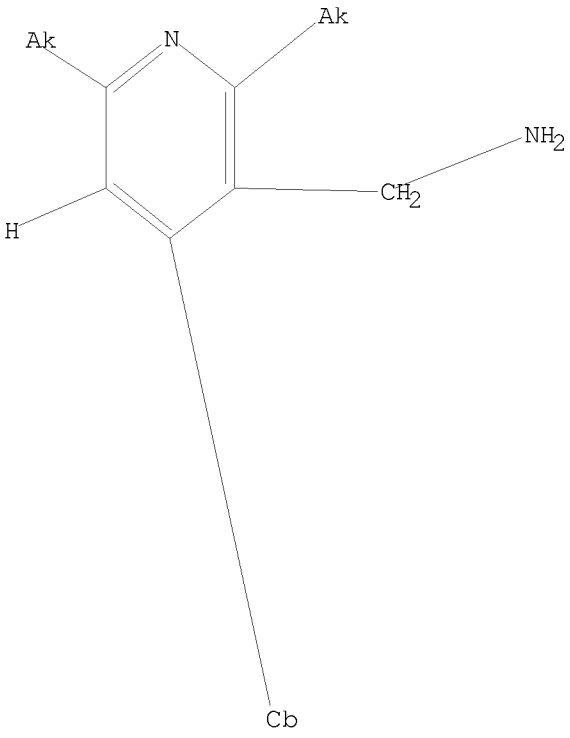
=>
Uploading C:\Documents and Settings\brobinson1\My Documents\adfgag.str

L9 STRUCTURE UPLOADED

Updated Search

10577561

```
=> d l9
L9 HAS NO ANSWERS
L9              STR
```



Structure attributes must be viewed using STN Express query preparation.

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=> s l9
SAMPLE SEARCH INITIATED 14:23:22 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -    24485 TO ITERATE

  8.2% PROCESSED     2000 ITERATIONS                                0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:       480335 TO   499065
PROJECTED ANSWERS:               0 TO        0

L10           0 SEA SSS SAM L9

=> s l9 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 177.90 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 14:23:26 FILE 'REGISTRY'
```

Updated Search

10577561

FULL SCREEN SEARCH COMPLETED - 490356 TO ITERATE

100.0% PROCESSED 490356 ITERATIONS 2 ANSWERS
SEARCH TIME: 00.00.05

L11 2 SEA SSS FUL L9

=> d his

(FILE 'HOME' ENTERED AT 14:13:23 ON 29 AUG 2008)

FILE 'REGISTRY' ENTERED AT 14:13:28 ON 29 AUG 2008
L1 STRUCTURE UPLOADED
L2 0 S L1
L3 STRUCTURE UPLOADED
L4 0 S L3
L5 2 S L3 FULL

FILE 'HCAPLUS' ENTERED AT 14:18:36 ON 29 AUG 2008
L6 1 S L5

FILE 'REGISTRY' ENTERED AT 14:18:51 ON 29 AUG 2008
L7 STRUCTURE UPLOADED
L8 0 S L7
L9 STRUCTURE UPLOADED
L10 0 S L9
L11 2 S L9 FULL

=> s l11 not l5
L12 0 L11 NOT L5

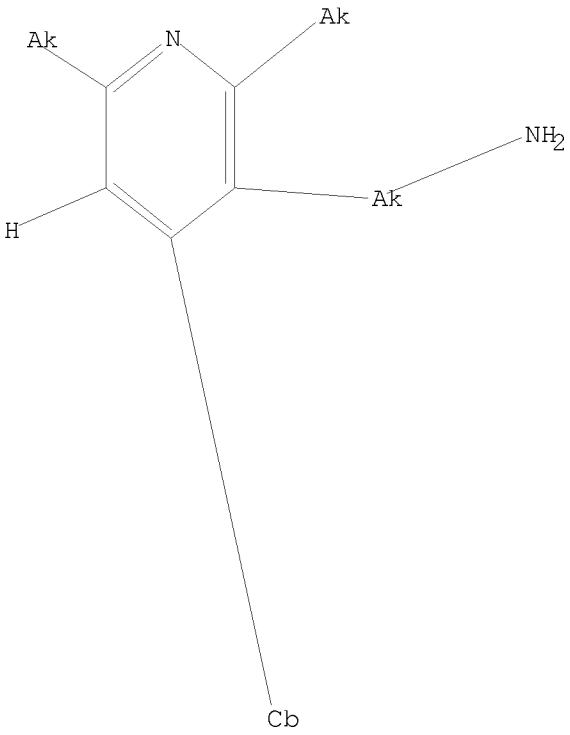
=>
Uploading C:\Documents and Settings\brobinson1\My Documents\aaaf.str

L13 STRUCTURE UPLOADED

=> d l13
L13 HAS NO ANSWERS
L13 STR

Updated Search

10577561



Structure attributes must be viewed using STN Express query preparation.

```
=> s l13
SAMPLE SEARCH INITIATED 14:25:36 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   178600 TO ITERATE

  1.1% PROCESSED     2000 ITERATIONS                                0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **INCOMPLETE**
                        BATCH   **INCOMPLETE**
PROJECTED ITERATIONS:      3547109 TO  3596891
PROJECTED ANSWERS:               0 TO        0

L14           0 SEA SSS SAM L13

=>
Uploading C:\Documents and Settings\brobinson1\My Documents\aaaty.str

L15     STRUCTURE UPLOADED

=> s l15
SAMPLE SEARCH INITIATED 14:27:28 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   178600 TO ITERATE
```

Updated Search

10577561

```
  1.1% PROCESSED     2000 ITERATIONS                                0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **INCOMPLETE**
                        BATCH   **INCOMPLETE**
PROJECTED ITERATIONS:      3547109 TO  3596891
PROJECTED ANSWERS:               0 TO        0

L16           0 SEA SSS SAM L15

=>
Uploading C:\Documents and Settings\brobinson1\My Documents\aaat.str

L17     STRUCTURE UPLOADED

=> s l17
SAMPLE SEARCH INITIATED 14:28:25 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -    24485 TO ITERATE

  8.2% PROCESSED     2000 ITERATIONS                                0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:       480335 TO   499065
PROJECTED ANSWERS:               0 TO        0

L18           0 SEA SSS SAM L17

=> s l17 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 177.90 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 14:28:30 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   490356 TO ITERATE

100.0% PROCESSED   490356 ITERATIONS                               10 ANSWERS
SEARCH TIME: 00.00.05

L19          10 SEA SSS FUL L17

=> d his

     (FILE 'HOME' ENTERED AT 14:13:23 ON 29 AUG 2008)

     FILE 'REGISTRY' ENTERED AT 14:13:28 ON 29 AUG 2008
L1              STRUCTURE UPLOADED
L2            0 S L1
L3              STRUCTURE UPLOADED
L4            0 S L3
L5            2 S L3 FULL

     FILE 'HCAPLUS' ENTERED AT 14:18:36 ON 29 AUG 2008
L6            1 S L5
```

Updated Search

10577561

```
     FILE 'REGISTRY' ENTERED AT 14:18:51 ON 29 AUG 2008
L7              STRUCTURE UPLOADED
L8            0 S L7
L9              STRUCTURE UPLOADED
L10           0 S L9
L11           2 S L9 FULL
L12           0 S L11 NOT L5
L13             STRUCTURE UPLOADED
L14           0 S L13
L15             STRUCTURE UPLOADED
L16           0 S L15
L17             STRUCTURE UPLOADED
L18           0 S L17
L19          10 S L17 FULL

=> s l19 not l5
L20         10 L19 NOT L5

=> file hcaplus
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                     ENTRY    SESSION
FULL ESTIMATED COST                                363.16     553.55

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)      SINCE FILE      TOTAL
                                                     ENTRY    SESSION
CA SUBSCRIBER PRICE                                  0.00      -0.80

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FILE COVERS 1907 - 29 Aug 2008  VOL 149 ISS 10
FILE LAST UPDATED: 28 Aug 2008  (20080828/ED)

HCAplus now includes complete International Patent Classification (IPC)
reclassification data for the second quarter of 2008.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

 This file contains CAS Registry Numbers for easy and accurate
 substance identification.

=> s l20
L21          3 L20
```

Updated Search

10577561

```
=> s l21 and satoru, s?/au
             8 SATORU, S?/AU
L22          0 L21 AND SATORU, S?/AU

=> s l21 and maezaki, h?/au
            12 MAEZAKI, H?/AU
L23          1 L21 AND MAEZAKI, H?/AU

=> d l23, ibib abs hitstr, 1

L23  ANSWER 1 OF 1  HCAPLUS  COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER:         2005:409480  HCAPLUS
DOCUMENT NUMBER:          142:463610
TITLE:                    Preparation of pyridines as inhibitors of dipeptidyl
                          peptidase IV useful for the prophylaxis or treatment
                          of diabetes
INVENTOR(S):              Oi, Satoru; Maezaki, Hironobu; Suzuki,
                          Nobuhiro
PATENT ASSIGNEE(S):       Takeda Pharmaceutical Company Limited, Japan
SOURCE:                   PCT Int. Appl., 431 pp.
                          CODEN: PIXXD2
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.           KIND   DATE        APPLICATION NO.         DATE
     ---------------      ----   --------    --------------------    --------
     WO 2005042488         A1    20050512    WO 2004-JP16457         20041029
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             CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
             GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
             LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
             NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
             TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
             AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
             EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,
             SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
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     AU 2004285807         A1    20050512    AU 2004-285807          20041029
     CA 2543529            A1    20050512    CA 2004-2543529         20041029
     JP 2006016377         A     20060119    JP 2004-315517          20041029
     EP 1678138            A1    20060712    EP 2004-793377          20041029
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     CN 1886376            A     20061227    CN 2004-80034965        20041029
     BR 2004015960         A     20070116    BR 2004-15960           20041029
     MX 2006PA03979        A     20060705    MX 2006-PA3979          20060407
     US 20070037807        A1    20070215    US 2006-577561          20060428
     IN 2006KN01220        A     20070427    IN 2006-KN1220          20060510
     NO 2006002516         A     20060725    NO 2006-2516            20060531
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PRIORITY APPLN. INFO.:                       JP 2003-373776       A  20031031
                                             JP 2004-30491        A  20040206
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Updated Search

JP 2004-165977 A 20040603
WO 2004-JP16457 W 20041029
KR 2006-708423 A3 20060429
OTHER SOURCE(S): CASREACT 142:463610; MARPAT 142:463610

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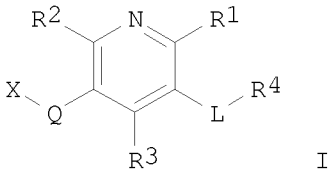

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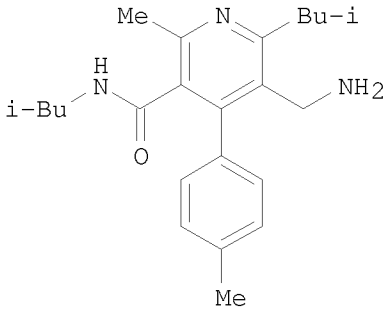
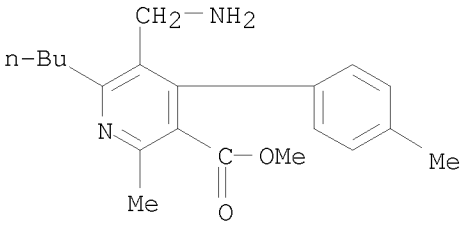


II

AB Title compds. I [wherein R1, R2 = independently (un)substituted hydrocarbyl, hydroxy; R3 = (un)substituted aryl; R4 = NH2 and derivs.; L = divalent hydrocarbon chain; Q = a bond or a divalent hydrocarbon chain; X = H, CN, NO2, acyl, OH and derivs., SH and derivs., NH2 and derivs., (un)substituted cyclyl; provided that when X = -C(:O)OEt, then Q = divalent hydrocarbon chain and that certain compds. are absent; and their salts, prodrugs] were prepared as dipeptidyl peptidase IV inhibitors. For example, Boc-protection of Me 5-(aminomethyl)-6-isobutyl-2-methyl-4-(4-methylphenyl)nicotinate (preparation given), saponification, coupling of the acid with isobutylamine/deprotection gave II•2TFA. I show a superior dipeptidyl peptidase IV inhibitory activity, and are useful as agents for the prophylaxis or treatment of diabetes and related diseases.

IT 851578-91-1P 851578-95-5P, 5-(Aminomethyl)-6-butyl-2-methyl-4-(4-methylphenyl)nicotinic acid dihydrochloride 851578-98-8P, Methyl 5-(aminomethyl)-2-methyl-4-(4-methylphenyl)-6-propylnicotinate dihydrochloride 851579-02-7P, 5-(Aminomethyl)-2-methyl-4-(4-methylphenyl)-6-propylnicotinic acid dihydrochloride
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(drug candidate; preparation of pyridines as inhibitors of dipeptidyl peptidase IV useful for prophylaxis or treatment of diabetes)

RN 851578-91-1 HCAPLUS
CN 3-Pyridinecarboxylic acid, 5-(aminomethyl)-6-butyl-2-methyl-4-(4-methylphenyl)-, methyl ester, hydrochloride (1:2) (CA INDEX NAME)



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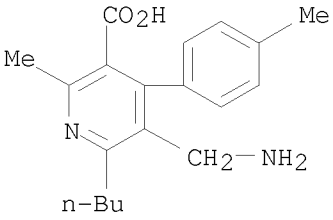

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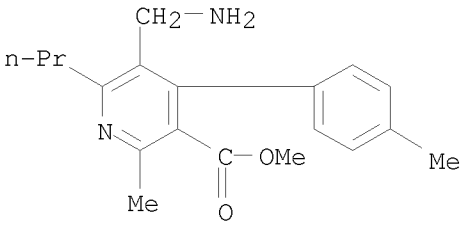

●2 HCl

Updated Search

RN 851579-02-7 HCAPLUS
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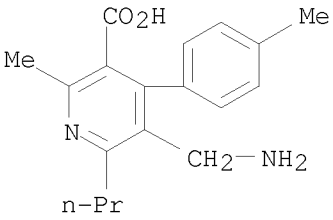

●2 HCl

IT 851578-94-4P 851579-01-6P, Methyl 5-(aminomethyl)-2-methyl-4-(4-methylphenyl)-6-propylnicotinate
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; preparation of pyridines as inhibitors of dipeptidyl peptidase IV useful for prophylaxis or treatment of diabetes)

RN 851578-94-4 HCAPLUS
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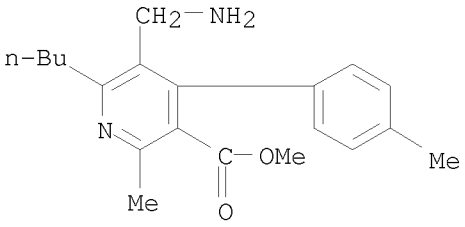

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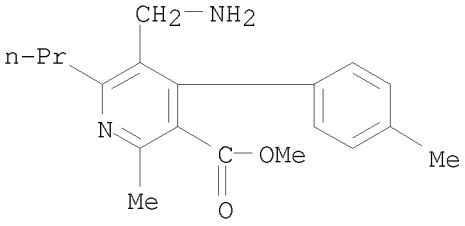

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L5           2 S L3 FULL

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L24  ANSWER 1 OF 2  HCAPLUS  COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER:        2001:278024  HCAPLUS
DOCUMENT NUMBER:         134:311111
TITLE:                   Preparation of substituted biphenyls as glucagon
                         receptor antagonists
INVENTOR(S):             Schoen, William R.; Ladouceur, Gaetan H.; Cook, James
                         H., II; Lease, Timothy G.; Wolanin, Donald J.; Kramss,
                         Richard H.; Hertzog, Donald L.; Osterhout, Martin H.
PATENT ASSIGNEE(S):      Bayer Corporation, USA; Bayer A.-G.
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10577561

SOURCE: U.S., 156 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6218431	B1	20010417	US 1997-904119	19970731

PRIORITY APPLN. INFO.: US 1997-904119 19970731
OTHER SOURCE(S): MARPAT 134:311111
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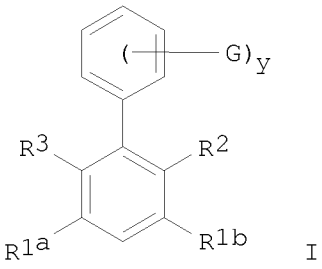
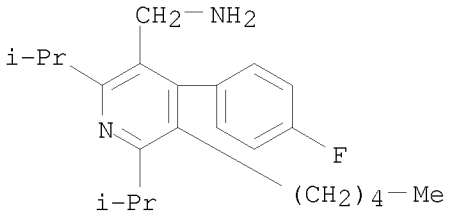


I

AB Substituted biphenyls I [R1a, R1b = alkyl; R2 = alkyl with substituents from 1 to 3 of SR7; R7 = Ph, or substituted Ph wherein the substituents are independently 1-5 of halogen, trifluoromethyl, alkyl, alkoxy, nitro, cyano, hydroxyl; R3 = alkyl with substituents of 1-2 hydroxyl groups; G represents a substituent selected from the group consisting of halogen, alkyl, OR4 with R4 = H, alkyl; y = 0-3], glucagon receptor antagonists. E.g., reduction of 2-cyclopentyl-6-ethyl-4-(4-fluorophenyl)-3-(3-trifluoromethylbenzyloxymethyl)pyridine-5-carboxylic acid Et ester with LiAlH4 gave 76.5% 2-cyclopentyl-6-ethyl-4-(4-fluorophenyl)-5-hydroxymethyl-3-(3-trifluoromethylbenzyloxymethyl)pyridine.

IT 202854-45-3P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of substituted biphenyls as glucagon receptor antagonists)

RN 202854-45-3 HCAPLUS
CN 3-Pyridinemethanamine, 4-(4-fluorophenyl)-2,6-bis(1-methylethyl)-5-pentyl- (CA INDEX NAME)



Updated Search

REFERENCE COUNT: 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1998:105938 HCAPLUS
DOCUMENT NUMBER: 128:167354
ORIGINAL REFERENCE NO.: 128:32985a
TITLE: Preparation of substituted pyridines and biphenyls as anti-hypercholesteremic, anti-hyperlipoproteinemic and anti-hyperglycemic agents
INVENTOR(S): Schmidt, Gunter; Angerbauer, Rolf; Brandes, Arndt; Muller-Gliemann, Matthias; Bischoff, Hilmar; Schmidt, Delf; Wohlfeil, Stefan; Schoen, William R.; Ladouceur, Gaetan H.; Cook, James H., II; Lease, Timothy G.; Wolanin, Donald J.; Kramss, Richard H.; Hertzog, Donald L.; Osterhout, Martin H.
PATENT ASSIGNEE(S): Bayer Corporation, USA; Bayer Aktiengesellschaft
SOURCE: PCT Int. Appl., 431 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

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WO 9804528	A2	19980205	WO 1997-US13248	19970729
WO 9804528	A3	19991111		
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RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
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ZA 9706730	A	19990729	ZA 1997-6730	19970729
EP 934274	A1	19990811	EP 1997-936259	19970729
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NZ 333951	A	20000929	NZ 1997-333951	19970729
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HU 2001000324	A3	20010628		
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RU 2195443	C2	20021227	RU 1999-104527	19970729
TW 520360	B	20030211	TW 1997-86110851	19970729
NO 9900399	A	19990329	NO 1999-399	19990128
NO 314143	B1	20030203		
KR 2000029723	A	20000525	KR 1999-700826	19990130
IN 1999DE01499	A	20050701	IN 1999-DE1499	19991119

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PRIORITY APPLN. INFO.: US 1996-690111 A 19960731
IN 1997-DE2099 A3 19970729
WO 1997-US13248 W 19970729

OTHER SOURCE(S): MARPAT 128:167354

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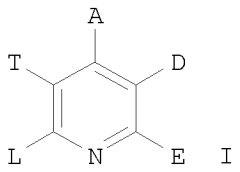

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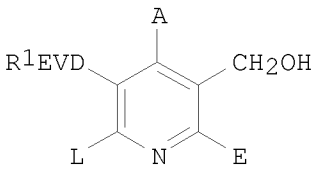

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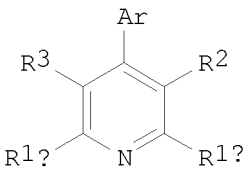

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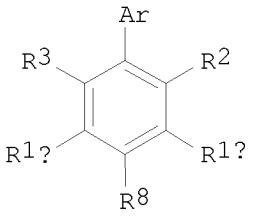

IV

AB The title compds. [I (A = (un)substituted C6-10 aryl; D = up to 8 carbon atoms alkyl which is substituted by hydroxy; E, L = (un)substituted up to 8 carbon atoms alkyl; L = (un)substituted C6-10 aryl; T = R7X, R8C(R9)(R10); R7, R8 = cycloalkyl, aryl, etc.; R9, R10 = H, halo, N3, etc.), II (R1 = cycloalkyl, aryl, etc.; E, D = alkyl (up to 8 carbon atoms); E = a bond; V = O, S, NH, etc.), III (R1a, R1b = CF3, C1-10 alkyl, C1-10 alkenyl, etc.; R2 = C1-10 alkyl, C1-10 alkenyl, etc.; R3 = OH, CF3, C1-6 alkanoyl, etc.; Ar = (un)substituted heteroaryl, aryl), IV], useful for the inhibition of cholesterol ester transfer proteins (CETP) (I), for the treatment of hyperlipoproteinemia (II), and for inhibition of the glucagon receptor, leading to treatment of glucagon-mediated conditions such as diabetes (III-IV), were prepared Thus, reduction of Et 2,6-diisopropyl-4-(4-fluorophenyl)-3-[(4-fluorophenyl)-chloromethyl]pyridine-5-carboxylate (preparation described) with LiAlH4 in THF afforded 69% I [A = 4-FC6H4; D = CH2OH; E = L = iPr; T = 4-FC6H4CH2]. For example, compound I [A = 4-FC6H4; D = CH2OH; E = L = iPr; T = 4-FC6H4CH(NH2)] showed IC50 of 0.6 μM against CETP.

IT 202854-45-3P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of substituted pyridines and biphenyls as anti-hypercholesteremic, anti-hyperlipoproteinemic and anti-hyperglycemic agents)

RN 202854-45-3 HCAPLUS

CN 3-Pyridinemethanamine, 4-(4-fluorophenyl)-2,6-bis(1-methylethyl)-5-pentyl- (CA INDEX NAME)

Updated Search

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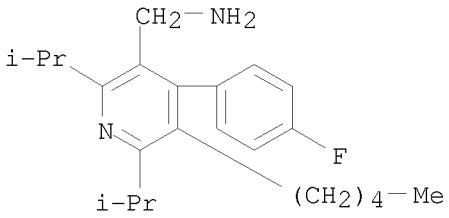


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FILE LAST UPDATED:  01 May 1997 (19970501/UP)

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  assignees, and patent information, e.g., patent numbers, are
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Updated Search

10577561

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STRUCTURE FILE UPDATES:   28 AUG 2008  HIGHEST RN 1044598-04-0
DICTIONARY FILE UPDATES:  28 AUG 2008  HIGHEST RN 1044598-04-0

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REGISTRY includes numerically searchable data for experimental and
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predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

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E11           1     202854-53-3/RN
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L27           1 202854-45-3/RN

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COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
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FULL ESTIMATED COST                                   0.46     573.97

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FILE 'HCAPLUS' ENTERED AT 14:31:02 ON 29 AUG 2008
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Updated Search

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FILE COVERS 1907 - 29 Aug 2008 VOL 149 ISS 10
FILE LAST UPDATED: 28 Aug 2008 (20080828/ED)

HCAplus now includes complete International Patent Classification (IPC)
reclassification data for the second quarter of 2008.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate
substance identification.

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=> s l27/uses
             2 L27
       7169164 USES/RL
L28          2 L27/USES
                 (L27 (L) USES/RL)

=> d l28, ibib abs hitstr, 1-2
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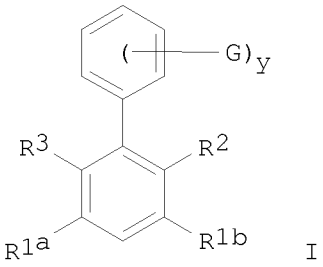
L28 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2001:278024 HCAPLUS
DOCUMENT NUMBER: 134:311111
TITLE: Preparation of substituted biphenyls as glucagon receptor antagonists
INVENTOR(S): Schoen, William R.; Ladouceur, Gaetan H.; Cook, James H., II; Lease, Timothy G.; Wolanin, Donald J.; Kramss, Richard H.; Hertzog, Donald L.; Osterhout, Martin H.
PATENT ASSIGNEE(S): Bayer Corporation, USA; Bayer A.-G.
SOURCE: U.S., 156 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6218431	B1	20010417	US 1997-904119	19970731
PRIORITY APPLN. INFO.:			US 1997-904119	19970731

OTHER SOURCE(S): MARPAT 134:311111
GI

Updated Search



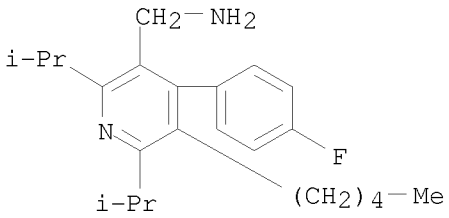
I

AB Substituted biphenyls I [R1a, R1b = alkyl; R2 = alkyl with substituents from 1 to 3 of SR7; R7 = Ph, or substituted Ph wherein the substituents are independently 1-5 of halogen, trifluoromethyl, alkyl, alkoxy, nitro, cyano, hydroxyl; R3 = alkyl with substituents of 1-2 hydroxyl groups; G represents a substituent selected from the group consisting of halogen, alkyl, OR4 with R4 = H, alkyl; y = 0-3], glucagon receptor antagonists. E.g., reduction of 2-cyclopentyl-6-ethyl-4-(4-fluorophenyl)-3-(3-trifluoromethylbenzyloxymethyl)pyridine-5-carboxylic acid Et ester with LiAlH4 gave 76.5% 2-cyclopentyl-6-ethyl-4-(4-fluorophenyl)-5-hydroxymethyl-3-(3-trifluoromethylbenzyloxymethyl)pyridine.

IT 202854-45-3P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of substituted biphenyls as glucagon receptor antagonists)

RN 202854-45-3 HCAPLUS

CN 3-Pyridinemethanamine, 4-(4-fluorophenyl)-2,6-bis(1-methylethyl)-5-pentyl- (CA INDEX NAME)



REFERENCE COUNT: 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1998:105938 HCAPLUS

DOCUMENT NUMBER: 128:167354

ORIGINAL REFERENCE NO.: 128:32985a

TITLE: Preparation of substituted pyridines and biphenyls as anti-hypercholesteremic, anti-hyperlipoproteinemic and anti-hyperglycemic agents

INVENTOR(S): Schmidt, Gunter; Angerbauer, Rolf; Brandes, Arndt; Muller-Gliemann, Matthias; Bischoff, Hilmar; Schmidt, Delf; Wohlfeil, Stefan; Schoen, William R.; Ladouceur, Gaetan H.; Cook, James H., II; Lease, Timothy G.;

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	Wolanin, Donald J.; Kramss, Richard H.; Hertzog, Donald L.; Osterhout, Martin H.
PATENT ASSIGNEE(S):	Bayer Corporation, USA; Bayer Aktiengesellschaft
SOURCE:	PCT Int. Appl., 431 pp. CODEN: PIXXD2
DOCUMENT TYPE:	Patent
LANGUAGE:	English
FAMILY ACC. NUM. COUNT:	1
PATENT INFORMATION:	

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9804528	A2	19980205	WO 1997-US13248	19970729
WO 9804528	A3	19991111		
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RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
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AU 9738971	A	19980220	AU 1997-38971	19970729
ZA 9706730	A	19990729	ZA 1997-6730	19970729
EP 934274	A1	19990811	EP 1997-936259	19970729
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CN 1239474	A	19991222	CN 1997-198258	19970729
TR 9902325	T2	20000221	TR 1999-2325	19970729
TR 9902326	T2	20000522	TR 1999-2326	19970729
NZ 333951	A	20000929	NZ 1997-333951	19970729
BR 9710637	A	20001031	BR 1997-10637	19970729
HU 2001000324	A2	20010528	HU 2001-324	19970729
HU 2001000324	A3	20010628		
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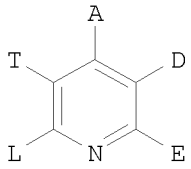
RU 2195443	C2	20021227	RU 1999-104527	19970729
TW 520360	B	20030211	TW 1997-86110851	19970729
NO 9900399	A	19990329	NO 1999-399	19990128
NO 314143	B1	20030203		
KR 2000029723	A	20000525	KR 1999-700826	19990130
IN 1999DE01499	A	20050701	IN 1999-DE1499	19991119

PRIORITY APPLN. INFO.:	US 1996-690111	A	19960731
	IN 1997-DE2099	A3	19970729
	WO 1997-US13248	W	19970729

OTHER SOURCE(S):	MARPAT 128:167354

GI

Updated Search



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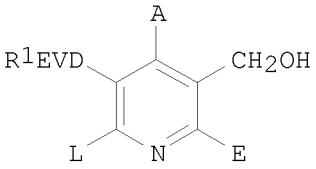

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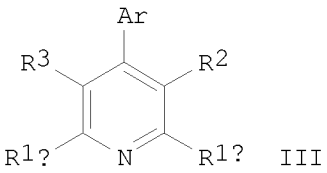

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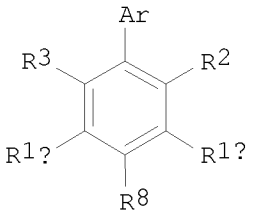

IV

AB The title compds. [I (A = (un)substituted C6-10 aryl; D = up to 8 carbon atoms alkyl which is substituted by hydroxy; E, L = (un)substituted up to 8 carbon atoms alkyl; L = (un)substituted C6-10 aryl; T = R7X, R8C(R9)(R10); R7, R8 = cycloalkyl, aryl, etc.; R9, R10 = H, halo, N3, etc.), II (R1 = cycloalkyl, aryl, etc.; E, D = alkyl (up to 8 carbon atoms); E = a bond; V = O, S, NH, etc.), III (R1a, R1b = CF3, C1-10 alkyl, C1-10 alkenyl, etc.; R2 = C1-10 alkyl, C1-10 alkenyl, etc.; R3 = OH, CF3, C1-6 alkanoyl, etc.; Ar = (un)substituted heteroaryl, aryl), IV], useful for the inhibition of cholesterol ester transfer proteins (CETP) (I), for the treatment of hyperlipoproteinemia (II), and for inhibition of the glucagon receptor, leading to treatment of glucagon-mediated conditions such as diabetes (III-IV), were prepared Thus, reduction of Et 2,6-diisopropyl-4-(4-fluorophenyl)-3-[(4-fluorophenyl)-chloromethyl]pyridine-5-carboxylate (preparation described) with LiAlH4 in THF afforded 69% I [A = 4-FC6H4; D = CH2OH; E = L = iPr; T = 4-FC6H4CH2]. For example, compound I [A = 4-FC6H4; D = CH2OH; E = L = iPr; T = 4-FC6H4CH(NH2)] showed IC50 of 0.6 μM against CETP.

IT 202854-45-3P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of substituted pyridines and biphenyls as anti-hypercholesteremic, anti-hyperlipoproteinemic and anti-hyperglycemic agents)

RN 202854-45-3 HCAPLUS

CN 3-Pyridinemethanamine, 4-(4-fluorophenyl)-2,6-bis(1-methylethyl)-5-pentyl- (CA INDEX NAME)

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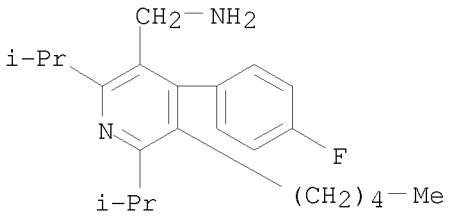

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